

## REMARKS

This Response is submitted in reply to the Final Office Action dated January 23, 2007, in which the Examiner:

objected to the previous claim 11 and 12 amendments as introducing new matter;

rejected claims 11, 12 and 24 under 35 U.S.C. § 112, first paragraph, as failing to meet the written description requirement;

rejected claims 2, 4, 10, 11 and 24 under 35 U.S.C. § 112, second paragraph, as indefinite;

rejected claims 1, 2, 4-12 and 22-25 under 35 U.S.C. § 102(b) as anticipated by U.S. Patent No. 4,690,843 to Inagaki.

Applicant respectfully traverses the objections and rejections below. Claims 3 and 13-21 having been previously cancelled, claims 1-12 and 22-25 are currently pending.

Applicant would like to first address the prior art rejections, before turning to the various objections and 35 U.S.C. § 112 rejections. Regarding the rejection of claims 1, 2, 4-12 and 22-25 under 35 U.S.C. § 102(b) as anticipated by Inagaki, the Examiner has stated:

There is no requirement that Inagaki teach that “an embossed pattern is present *before* heat shrinking” since the structure of the final product is the only structure considered in an article claim. (Final Office Action, p. 10.)

Applicant believes that there is a fundamental misunderstanding between the Examiner and Applicant. Specifically, Applicant’s current claims are directed to a wrapper *for* packaging one or more articles, the wrapper comprising, in part, a sleeve of heat-shrink plastics material *for* shrinking onto the article(s) for packaging, wherein the wall of the sleeve is embossed at least in part with a predetermined pattern, as recited in independent claim 1. A wrapper *for* packaging an article and a sleeve *for* shrinking onto an article clearly refer to a wrapper and a sleeve that have *not yet* been shrunk onto an article (otherwise they would be *shrunk* onto an article, and not *for* shrinking onto an article). The “final product” being claimed, therefore, is a wrapper *before* shrinking onto an article – which wrapper has a sleeve with an embossed pattern. Therefore, it is entirely relevant whether Inagaki shows or

discloses whether “an embossed pattern is present *before* heat shrinking” onto an article, as that is the state of the wrapper being claimed by Applicant.

Considered in this light, Applicant submits that Inagaki clearly does not show or disclose Applicant’s claim 1 recitation that the wall of the sleeve is embossed at least in part with a predetermined pattern. Instead, Inagaki’s net pattern 9 only appears as a result of shrinking the films 1 and 2 onto an article, and there is apparently *no* embossed pattern on the films 1 or 2 *before* shrinking.

Thus, Inagaki does not show or disclose each and every recitation of Applicant’s independent claim 1. Accordingly, Applicant respectfully submits that the rejection of claims 1, 2, 4-12 and 22-25 under 35 U.S.C. § 102(b) as anticipated by Inagaki is improper for at least this reason, and should be withdrawn.

Previous amendments to claims 11 and 12 were objected to as introducing new matter into the disclosure of the invention. Specifically, the Examiner objected to the recitations “insert has a fine screen” and “a screen is applied to [a] face of the sleeve” as not supported by the application as originally filed. The Examiner issued a corresponding rejection of claims 11 and 12 (and claim 24, which depends from claim 11) under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement. Applicant respectfully submits that the claim 11, 12 and 24 recitations are clearly supported by the original disclosure of the application and thus neither constitute new matter nor fail to meet the written description requirement of 35 U.S.C. § 112, first paragraph.

Regarding claims 11 and 24, claim 11 recites the article-packaging wrapper according to claim 10, wherein the rigid or semi-rigid insert has a fine screen on its free face. Claim 24 depends directly from claim 11 and further recites that the fine screen is a multiple diffraction screen of lens type.

Applicant notes that the Examiner’s objection and rejection appear to be based on the Examiner’s understanding that “none of the portions of the specification that discuss the screen disclose that the screen is actually a component of the wrapper.” (See Final Office Action, p. 7) Applicant respectfully submits that this understanding is incorrect. Figure 7 shows an embodiment of a wrapper 10 having an insert 17, as described in paragraph [0056] of the Specification. Thus, the insert 17 is clearly a component of the wrapper in this embodiment. Figure 8 is an enlargement of the circled area VIII of Figure 7. Thus, Figure 8 also clearly shows features that are components of the wrapper in this embodiment. Namely, Figure 8

shows that the free face of the insert 17 presents a fine screen, as described in paragraph [0057] the Specification. In this embodiment, the fine screen is a multiple-diffraction screen of lens-type, composed of parallel facets 17' and 17'' organized in two different directions, as described in paragraph [0058] of the Specification.

Accordingly, claim 11, which recites that the rigid or semi-rigid insert has a fine screen on its free face, and dependent claim 24, which further recites that the fine screen is a multiple-diffraction screen of lens type, are both fully supported by the disclosure as filed and fully comply with the written description requirement of 35 U.S.C. § 112, first paragraph for at least the above reasons.

Regarding claim 12, claim 12 recites the article-packaging wrapper according to claim 1, wherein a screen is applied to the inside and/or outside face of the sleeve on at least some of the portions in relief formed by the embossed pattern. In the embodiment discussed above, the fine screen is on a free face of a rigid or semi-rigid insert. In another embodiment, the fine screen can be applied to the film, itself, as clearly described in paragraph [0072] of the Specification. As the screen is applied *to the film*, the screen is then clearly a feature of the film, which is a component of the wrapper. Thus, the term screen refers, again, to a feature of the wrapper. Accordingly, claim 12 is also supported by the disclosure as filed and fully comply with the written description requirement of 35 U.S.C. § 112, first paragraph, for at least the above reasons.

As claims 11 and 12 do not introduce new matter, and as claims 11, 12 and 24 fully comply with the written description requirement of 35 U.S.C. § 112, first paragraph, Applicant respectfully requests that the objection to claims 11 and 12, and the rejection of claims 11, 12 and 24 under 35 U.S.C. § 112, first paragraph, be withdrawn.

Claims 2, 4, 10, 11 and 24 were rejected under 35 U.S.C. § 112, second paragraph, as indefinite, on various grounds.

Claims 2, 10 and 11 were rejected for the term "semi-rigid" and claims 10 and 11 were also rejected for the term "rigid." Applicant disagrees and submits that "semi-rigid" and "rigid" both define the patentable subject matter with a *reasonable* degree of particularity and distinctness, even though the claim terms at issue may broadly encompass a wide range of possible materials. Applicant also again asserts that "semi-rigid" and "rigid" are both terms of art as applied to plastics materials. In support of this assertion, Applicant submits nine (9) examples of websites relating

to plastics films and/or packaging, which represent a small sample of the results obtained from a Google® search for the term “semi-rigid film”. The terms “semi-rigid” and/or “rigid” are repeatedly used as terms of art throughout these examples, evincing Applicant’s assertion that these terms are well known to those skilled in the art.

Claim 4 was rejected for the recitation that [a] face of the sleeve is “coated in the technical agent.” In response to Applicant’s inquiry as to what was unclear about this recitation, the Examiner elaborated on this rejection in the Final Office Action, stating:

...the language used does not conform to how something would be described as being coated. A coating is coated onto something, that something is not referred to as being “coated in the” coating. (Final Office Action, p. 9.)

Applicant respectfully disagrees, and submits that it is equally appropriate and common to express that something is coated in a coating as it is to express that a coating coats something. Even if the Examiner were correct, and the Examiner’s preference were a more common form of expression, that does not render Applicant’s expression indefinite. MPEP 2173.02 provides:

Examiners are encouraged to suggest claim language to applicants to improve the clarity or precision of the language used, but should not reject claims or insist on their own preferences if other modes of expression selected by applicants satisfy the statutory requirement. (Emphasis added.)

As “coated in the technical agent” does not render claim 4 indefinite, Applicant respectfully submits that the Examiner’s preference is insufficient basis for an indefiniteness rejection.

Claim 11 was further rejected for the recitation “presents a fine screen on its free face.” This ground of rejection (presented in paragraph 4 of the first Office Action) was not expressly withdrawn in the Final Office Action, which repeated the “...35 U.S.C. § 112 rejection of claims 2, 4, 10 and 11 made of record in paragraph 4 of the previous Office Action.” As the recitation at issue no longer appears in claim 11 in that form, and as a corresponding rejection of claim 12 was withdrawn, Applicant assumes that this particular ground of rejection was also withdrawn.

Claim 24 was further rejected for the recitation “of lens type.” Applicant respectfully submits that a screen of lens type is a screen that has traits or characteristics in common with a lens but not with other non-lens type screens, such that it would be recognized as a lens type screen. While this lack of specificity may render the claim broad, it does not render the claim indefinite.

Application No.: 10/517,959

Final Office Action dated: January 23, 2007

Response to Final Office Action dated: April 11, 2007

For at least the reasons stated above, Applicant respectfully submits that the rejection of claims 2, 4, 10, 11 and 24 under 35 U.S.C. § 112, second paragraph, as indefinite, is improper, and should be withdrawn.

Having traversed each and every objection and rejection, Applicant respectfully requests that the rejections of claims 1-12 and 22-25 be withdrawn, and claims 1-12 and 22-25 be passed to issue.

Applicant believes no fees are due in connection with this Response. If any fees are deemed necessary, please charge any such fees to Deposit Account No. 13-0235.

Respectfully submitted,

By 

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Attorney for Applicant

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CityPlace II, 185 Asylum Street  
Hartford, CT 06103-3402  
(860) 549-5290

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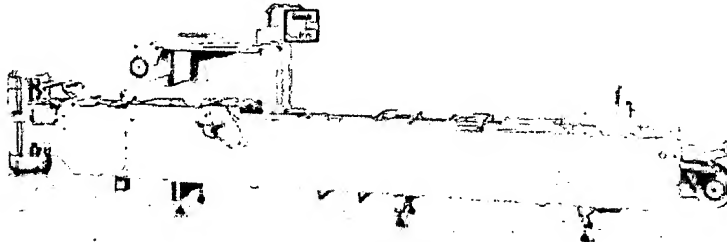
Merchandising (NEW!!)

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:: Using samples ::



Die set for flexible & semi-rigid film shown on a rebuilt Dixie Vac 2000  
(picture shows similar machine)

:: Choose your language ::



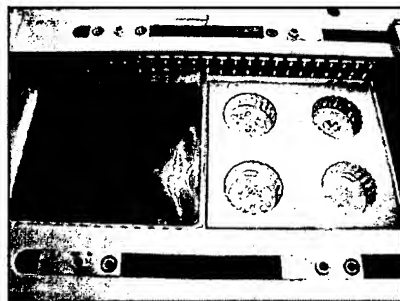
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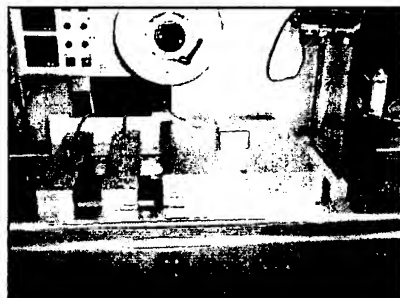
GO



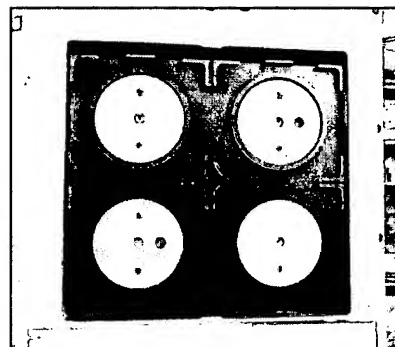
Pre-heating plate with quick changing  
forming plate  
(4 packs, diameter 90 mm)



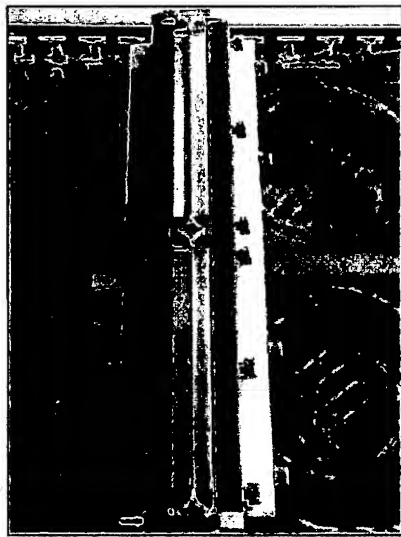
moulded bottom web



Vacuum and sealing station with 2 cross  
cutting bars  
for flexible film



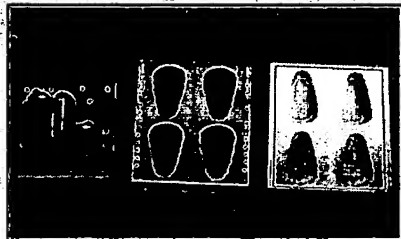
quick changing sealing frame  
(4 packs, diameter 90 mm) with easy  
opening corner



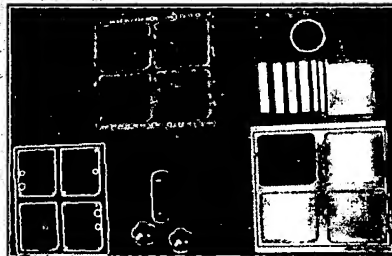
cutting tool of the cross cutting punching tool for semi-rigid film (star cutting; shifting punch)



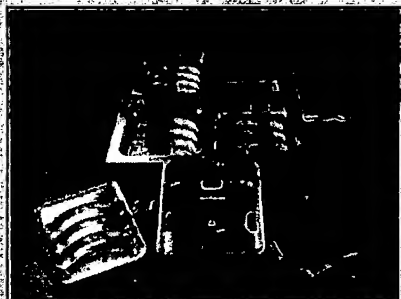
cross cutting of the packages (punching tool)



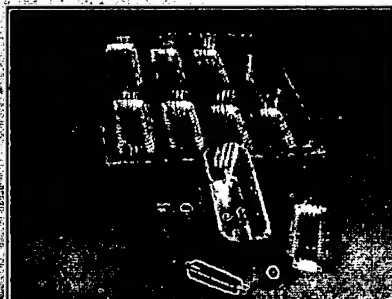
Die change-set, consisting of forming plate, sealing frame, contour sealing plate and carrying device.  
Package: V-form for quark.



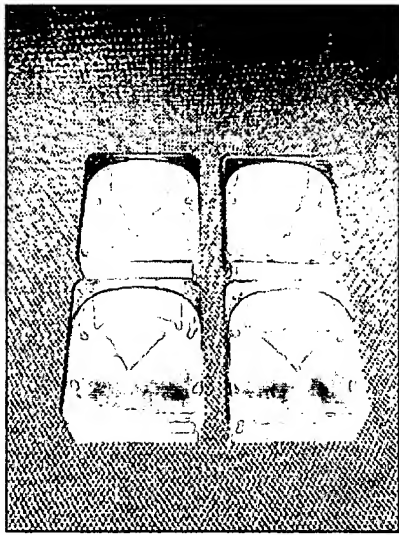
Die change-set for flexible film, 2-lanes/2-rows  
(= 4 packages/stroke)



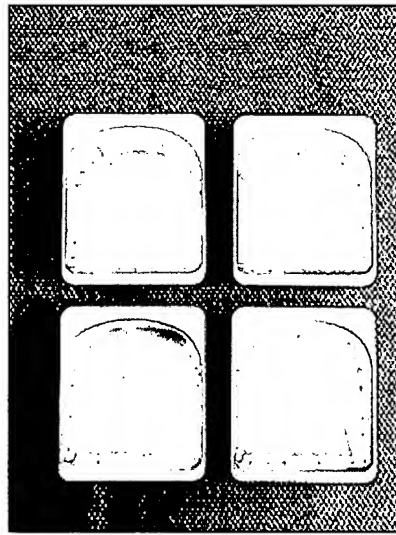
Special deep draw inserts for sausages (semi-rigid film)



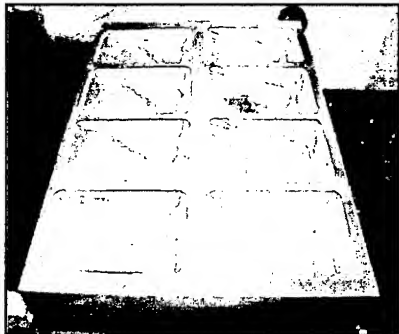
Special deep draw inserts for "Frankfurter" sausages (semi-rigid film)



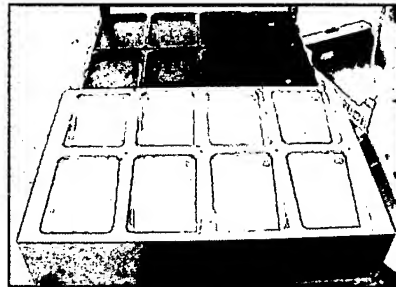
Special deep draw inserts for wedge-shaped products



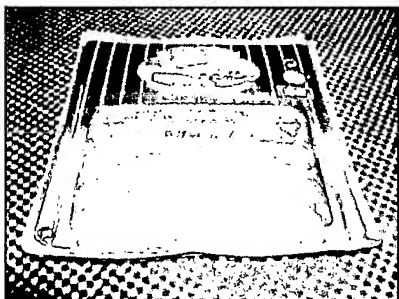
Special deep draw inserts for wedge-shaped products



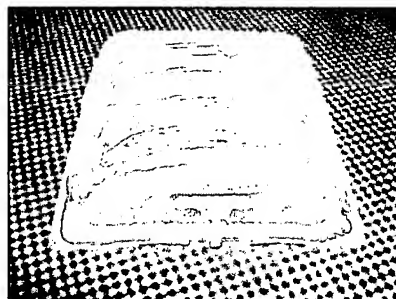
Special deep draw inserts for wedge-shaped products



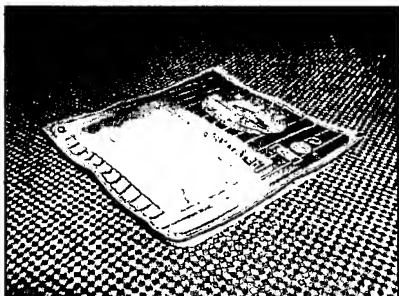
Special deep draw inserts for wedge-shaped products



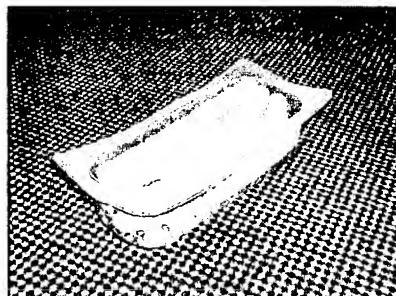
Package "Wienere Sausages" topview



Package "Wienere Sausages" bottomview



Package "Wienere Sausages" sideview



Package Semi-Rigid-Foil, gasflushed





# Industrias Plásticas Internacionales S.A. de C.V.



**Rigid  
Films**



**Semirigid  
Films**



**Wood  
Finish  
Film**

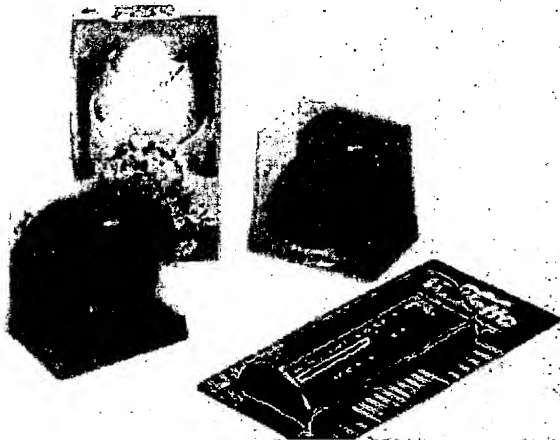
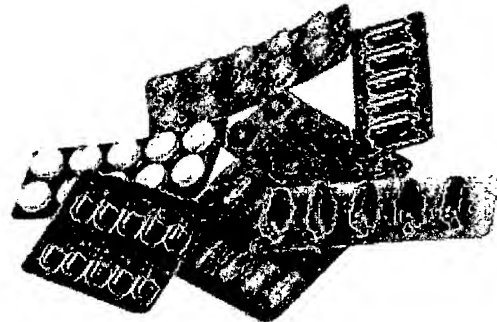


**Flexible  
Film**

## IPIDUREX & IPIPACK Rigid Films

IPIDUREX & IPIPACK are products designed for specific applications.

Applications requiring chemical resistance, moisture barrier properties, high temperature impact, and FDA requirements for packaging of food and pharmaceutical products.

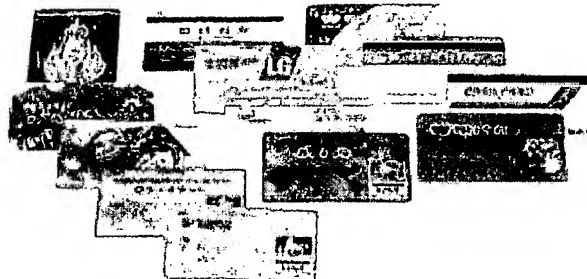


With this product line, blister pack materials can be supplied to several industries, such as pharmaceutical for tablets and capsules, compact discs, audio and video cassettes, and endless other applications.

**Other products applications are:**

- Cooling towers packaging
- Decals

- Flower boxes
- Displays
- ID and credit cards
- Binders
- File folders
- Toys



Product applications are very diversified, and each product is demanding of its own specification, not only to product usage, but also to customers specific process.

IPISA's commitment to quality, customer satisfaction, and continuous improvement are our driving forces.

Our research and development teams are constantly developing new knowledge, which will enable us to develop new, as well as better products to meet your requirements.

<u>Technical Properties of Opaque Rigid Film</u>	<u>Technical Properties of Rigid Crystal Film</u>
<u>Finished Product Parameters of Opaque Rigid Film</u>	<u>Finished Product Parameters of Rigid Crystal Film</u>

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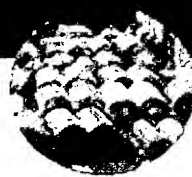
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IPISA. Derechos Reservados. Calle 6 Num. 12 Fraccionamiento Industrial Xalostoc C.P. 55340  
Ecatepec, Estado de México Tel. (52) 5755-3555

# Industrias Plásticas Internacionales S.A. de C.V.



**Rigid  
Films**



**Semirigid  
Films**



**Wood  
Finish  
Film**

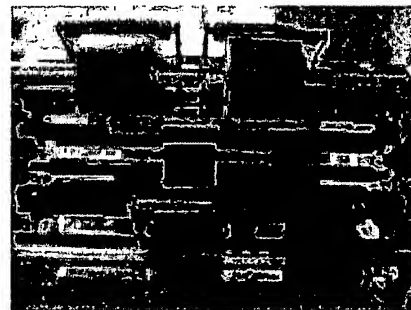


**Flexible  
Film**

## IPIFLEX Semirigid Films

IPIFLEX Semirigid products are available  
in product lines such as:

- crystal clear semirigid films combined  
with engravings
- coated finishes
- skin pack film
- films laminated with fabric or other  
substrates such as electrical tapes



IPISA's products lines for these  
applications include stationery  
goods,  
ring binders, document  
envelopes, and sheet protectors.

These products all require excellent  
appearance, thickness control, lay-flat  
and low dimensional stability.

IPISA's commitment to quality, customer satisfaction, and continuous  
improvement are our driving forces.

Our research and development teams are constantly developing new  
knowledge, which will enable us to develop new, as well as better  
products to meet your requirements.

Technical properties of Semirigid Film

Finished product parameters

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ACHILLES

A C H I L L E S U S A I N C

# Plastic Products with a CLEAR Advantage.

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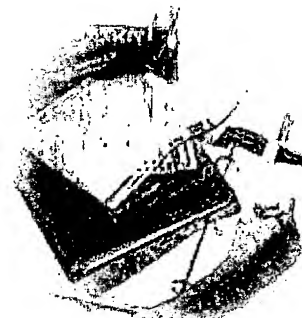
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## ► Achilles Products

### BOOKBINDING & STATIONERY

Achilles offers a full line of films for the Bookbinding/Stationery industries. Our semi-rigid double polished clear film provides premium quality and maximum clarity. Our films are used for a wide variety of products including loose leaf binders, file holders, sheet protectors, advertising specialties and many other consumer products. Achilles can manufacture these films in a variety of embosses including matte, taffeta and orange peel.



Find out  
what's new in our  
company and check  
out new products!  
[click here](#)

Catch us  
at your local  
tradeshow!  
[click here](#)

## Bookbinding & Stationery Products

### Material Features

Double polished crystal  
clear semi-rigid film

Double polished crystal  
clear semi-rigid film;  
(+) Copylifting resistant

New "Copyshield" Anti-  
copylifting Alloy materials

RF Weldable Olefin / Non  
vinyl materials

### Grades

SNC205, 204,  
191  
(General  
grades)

SNC255  
(OF cold crack)  
SNC305 (-10F)  
SNC405 (-20F)

SNC177

SNX205, 204,  
254, 255  
(OF)  
{Copygard}

GRO235  
(opaque films)  
GMC235  
(frosty clear)  
GFC235  
(slight texture)  
NFC235  
(slight texture)

ARO165  
(opaque films)  
AMC165

### Applications

Clear binder overlay, clear  
pockets, etc.

Specialty pouches, card  
holders, file arrangers,  
sheet protectors, etc.

Printable grade film.

Clear binder overlay, clear  
pockets, misc. envelope  
products.

Binders, file arrangers  
overlay, envelopes, etc.

Non-PVC binders with  
longer life properties.

(frosty clear)

Frosty clear matte <u>semi-rigid film</u>	EMC204, 254(OF), 304(-10F)	Pockets, pouches, misc business card holders.
Frosty clear <u>semi-rigid film</u> ; (+)Copylifting resistant	EMC046 (matte) EFC046 (matte/polished) {Copygard}	Pockets, pouches, misc file arrangers, overlay, etc.
Frosty clear <u>semi-rigid film</u>	EFC204, 254(OF) (Matte/polished)	Pockets, pouches, misc file envelopes, overlay, etc.
Orange peel <u>semi-rigid</u> textured film	SPC204, 191, 254(OF), 304(- 10F), SPX204 (Copygard)	Pockets, CD pouches, misc. packaging, etc.
Taffeta embossed <u>semi-rigid</u> textured film	EUC204 EUC051 (antistatic L1) EUC025 (antistatic L2)	Disc holders, low static pouches, misc. envelopes.

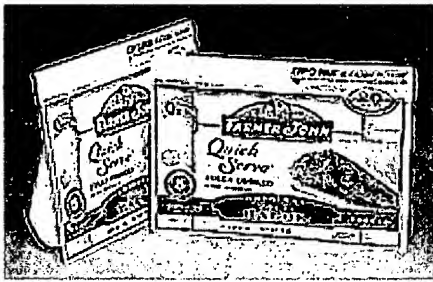


## Curwood Introduces New Packaging Solution for Pre-Cooked Bacon Market

Source: Curwood Marketing

Date: 2/9/2005

**(OSHKOSH, Wisconsin)** – The Farmer John Quick Serve Fully-Cooked Bacon Contoured Semi-Rigid Package with Curwood's EZ Peel® Opening Feature is the first package of its style in the pre-cooked bacon market area.



Created through the use of a horizontal form-fill-seal (HFFS) machine, the Farmer John contoured package represents a new solution for pre-cooked bacon. The semi-rigid film used in this application contains all the necessary properties to give this package the appropriate amount of rigidity in order to accommodate the use of a press-to-close zipper, which enables consumers to use a portion of the contents, reclose the package and save the remainder for later use.

In addition, the semi-rigid film used in this package is critical to its success because it contains the proper barrier needed to preserve the product to prevent premature spoilage and allows the package to stand up on store shelves.

The package also utilizes Curwood's EZ Peel opening technology just below the hermetic seal. This enables the consumer to easily open the package without the use of a sharp instrument. Also, because the package is recloseable, the chances of premature spoilage and waste of the product are reduced, and no secondary packaging is required by the consumer to store the product.

For marketers, this package offers a large printing area with high color graphics to create a "billboard" effect and increase visibility on store shelves. The non-forming and forming films contain white pigmented sealants. When using this sealant on the non-form film, the product packager saves the cost of an additional color for the graphics. Also, the pigment allows for the graphics to be much more visible on the package and adds to the product's appeal. Additionally, because the film is contoured, it provides dual display capabilities for the retailer – either as a stand-up pouch or as a pegged package.

The Farmer John package also affords significant cost savings. By utilizing printed nonforming and semi-rigid forming films, there is no need for the product packager to use a corrugated outer package, which provides a savings to the product packager. And, since the package is produced on roll stock equipment, there are significant savings over using a pre-made pouch.





## ***Semi-Rigid Vinyl Film*** ***Pressure-Sensitive Vinyl Film***

### **SEMI-RIGID VINYL FILM**

A line of **Double Polished Clear** and **Orange Peel Clear Vinyl Film** is available for a host of heat sealing applications such as overlays for binders, tool pouches, pockets, I.D. badges, ticket and x-ray holders and other stationery products.

**THICKNESS:** .005 TO .016

**WIDTHS:** 49" and 54"

**FORMULATIONS:** 1.5H to 4H

**GRADES:** Special Slip (Non-Tack)

**Other Widths to Special Order**

"Copy-Guard" Formulation to resist transfer / offset of many inks and toners.\*  
Helps preserve photographs, printed material, charts and reports.

\* There are no warranties, expressed or implied, concerning the suitability of this product for any particular end use. Due to many inks and toners available, it is the responsibility of the user to test the material to determine its suitability for his particular end use.

---

### **PRESSURE SENSITIVE VINYL FILM**

Rolls of Double Polished Clear with acrylic adhesive coating on one side for permanent bond to most substrates are available as follows:

**.006 x 54" 3H --- 185 yards per roll**

A special heavyweight white slip release paper on the coated side permits RF welding into pockets, tags and labels.

General Purpose & Specialty Films • Marine Grade Vinyls • Welding Curtain Films • ~~Semi-Rigid Vinyl Film~~ • Pressure Sensitive Vinyl Film • Fire-Resistant Films • Patio Grade Film • Anti-Static Film • Hi-Tak Film • Vinyl Strip / Noise Control • Expanded Vinyls

Robeco 100 Ring Road West Garden City, NY 11530  
Tel: 516.248.1521 Toll Free: 1.800.992.1067 Fax: 516.248.1524  
email: sales@robecoinc.com

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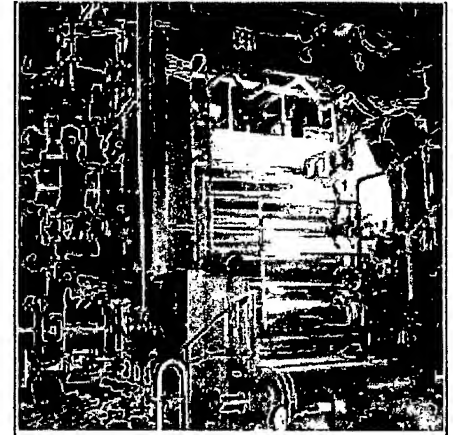
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## Shine Kon Enterprise Co., Ltd.

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## Product

Product ID: 02

Rigid /Semi-Rigid PVC Sheet and Film Plant Equipment(4.5.7 Rolls)[Click here for details.](#)

## Specifications:

- Dia.22" x 66" L 7 Rolls Rigid / Semi-Rigid PVC Sheet and Film Plant Equipment
- Dia.22" x 72" L 5 Rolls Rigid / Semi-Rigid PVC Sheet and Film Plant Equipment
- Dia.24" x 80" L Rigid / Semi-Rigid PVC Sheet and Film Plant Equipment
- Dia.26" x 90" L Rigid / Semi-Rigid PVC Sheet and Film Plant Equipment

## Features:

- The equipment is suitable to produce rigid / semi-rigid PVC film and sheet etc.
- Design and manufacture depend on customers' requirement and demand.
- PLC programming control makes operation and maintenance easily.

## Ordering information:

- **Minimum Order:** Negotiable
- **FOB:** Keelung, Taiwan
- **TEL:**  
886-3-3297218 (Taiwan)  
86-21-59104088 (China)
- **FAX:**  
886-3-3291327 (Taiwan)  
86-21-59104066 (China)
- **Email:**  
sk\_sales@shinekon.com.tw(Taiwan)  
shinekon@sketech.com(China)

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**Sell Rigid Sheet** (12/15/2006)

Our rigid PVC film has excellent printing capabilities and is used for various applications including: Lamintate, door panels, stationary, lampshades, cooling tower and ceiling foil. Vacuum Forming and Thermoforming ...

 [Related Categories: [Drugs & Medications](#), [Product Branding & Identification](#), [Packaging Related Machinery](#)]

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**Sell Stationery Book Cover Vinyl** (12/15/2006)

Our stationery films are mainly used to manufacture office utensil such as folders, loose leaf binder. The products are characterized by good cold resisting(-15 C), low shrinkage(<3.5%), DYNE>36, good stability in ...

 [Related Categories: [Abrasives](#), [Films](#)]

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### **Sell Super Transparent Films** (12/15/2006)

It is a high-grade product among vinyl films in international market in recent years, it has high brightness and good transparency just like glass. It fits to make transparent packing bags, high-grade transparent inflate...

[Related Categories: [Plastics & Products](#), [Plastic Packaging Materials](#)]

[Related Keywords: [super clear film](#), [pvc clear film](#), [sdpc film](#)]



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### **Contract,Furniture Vinyls** (12/15/2006)

1. Suitable Automotive, office/general seating, residential seating, Marine and furniture. Width: 54" Roll Size (Yards): 40 Nominal Weight: (in Yd. ) 32 oz. Contents (Virgin Vinyl): 100% Cold Crack: -10 F ...

[Related Categories: [Handbags & Totebags](#), [Interweave Fabric](#), [Leather Products](#)]

[Related Keywords: [pvc leather](#), [pvc sponge](#), [vinyl upholstery fabrics](#)]



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### **Sell Spray Printing Films** (12/15/2006)

Pray printing films is applicable for computer produced propaganda signs such as lamp box, street nameplate, exhibition board and posters. It has good absorbability to ink, being applied, the ink forms uniformly even lig...

[Related Categories: [Flooring & Tiles](#)]

[Related Keywords: [vinyl spray film](#)]



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### **Sell vinyl film** (04/08/2006)

We take pleasure to introduce us as one of the largest professional vinyl films manufacture in Guangdong, China, The equipments from Taiwan and Germany to mainly produce three series products: soft film, semi-rigid film ...

[Related Keywords: [transparent film](#), [binder vinyl](#)]



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### **Sell Wood Grain Vinyl Film for Laminate** (03/28/2006)

We take pleasure to introduce us as one of the largest vinyl three-dimensional laminates films factory in Guangdong, China. With about 2,000 workers and about more than 100 technical professors make our factory as one of...

[Related Keywords: [woodgrain sheet](#), [pvc 3d sheet](#), [pvc edge banding](#)]

No image

**Sell vinyl LEATHER** (03/06/2006)

We take pleasure to introduce us as one of the largest vinyl synthetic leather manufacture in Guangdong, China, The annual turn out is more than 5 billion USD. The equipments from Taiwan . With about 2,000 workers and ab...

[Related Categories: [Industrial Fabrics](#)]

[Related Keywords: [pvc artifical leather](#)]

[Contact Now](#)**Sell PVC FILM** (03/06/2006)

We take pleasure to introduce us as one of the largest PVC sheeting factories in Guangdong, China, The annual turn out is more than 5 billion per year. We mainly produce PVC films, PVC rigid sheeting and PVC decorative s...

[Related Keywords: [pvc woodgrin sheet](#)]

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We are the leading export trading company founded in 1992. As the world reliable reputation trade company, we offer superior quality products. Our main wholesale products are all brand handbags, purs...

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The KaiWei Machiner is the largest professional manu facturer of envelope machinery in the country. The auto envelope machine series products can produce the common envelope,in ternational envelope, w...

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**PVC Polyvinyl chloride**

**Scrap, offgrade & Virgin Market**

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### ***The World of PVC Scrap, Resins, Compounds and Off-grade.***

A leader in the worldwide sourcing and supply of semi rigid (hard) and flexible (soft) Suspension S-PVC , Emulsion E-PVC, past, PVC Scrap, B-Grade (off-spec) , Resins, compounds, as well as a full range of Plasticizers, PVC additives, PVC semi- finished products, rigid, semi-rigid and packaging films in prime, off-spec (B-grade), reprocessed and scrap (pipe, sheets, film, parts, purgings, lumps) grinded/ungrinded qualities and grades, K-value 50-75, are available for all major processes such as extrusion, injection moulding, calendering, film blowing and foil extrusions and are suitable for a diversity of applications - such as rigid pipes, window profiles, packaging films, clear medical products, cables, rainwater goods, furniture industry, automotive industry, electrical conduit, insulation and sheathing clear or pigmented sheet, flexible profiles/tubing, telecommunication cables, roofsheet, and packaging films, credit card, bottles, artificial leather, shoe soles, boots, toys, etc.

For even more information about PVC SCRAP offerings, see [PVC Scrap](#).

### **Material Picture Gallery**

- [PVC Scrap](#)
- [PVC Compound Scrap](#)
- [PVC Compound Virgin](#)
- [PVC Resins Scrap](#)
- [PVC soft Scrap](#)
- [S-PVC virgin](#)
- [E-PVC virgin](#)

### **PVC Scrap rigid regrind, bales, regranulate, pellets, resins from pipe, window profile, film, sheet, bottles.**

TYPE OF PVC SCRAP	QTY TON	TYPICAL QUALITIES
PVC used pipe rigid regrind / shredded / bales, grey , yellow, blue, black colour	50 ton / month	Used PVC pipe, grey, washing qualities, shredded grinded, also clean from production, white & mixed colours colour, with/without pe contents.
PVC window /Door profiles scrap regrind, white colour.	100 ton / month	PVC window / door profiles regrind : white , mixed colours clean from production and used profiles, with metal/film contents
PVC credit card scrap, rigid, white colour, bales / shredded	30 ton / month	PVC credit card film production scrap, bales / shredded, white colour with (out) print.

PVC blister film regrind / bales natural and colour clean	80 ton / month	PVC blister film regrind / bales Natural and colour from production without PE contents.
PVC sheets regrind / bales natural and colour clean	80 ton / month	PVC sheets regrind Natural and colour from production, clean
PVC bottles scrap, bales / regrind blue tinted	20 ton / month	rigid PVC bottles scrap, bales / regrind, blue tinted colour
PVC foam sheets regrind white colour from production	25 ton / month	rigid PVC foam sheets regrind, bales from production, white colour

#### **PVC Compounds scrap powder / pellets , pipe / fittings / window from compound**

TYPE OF PVC SCRAP	QTY TON	TYPICAL QUALITIES
rigid PVC compounds scrap, pipe and window grade	25 ton / month	PVC compounds powder / pellets scrap from production, natural / mixed colour Fully / partially mixed with additives, pipe and window profiles grade.

#### **PVC semi-rigid film scrap**

TYPE OF PVC SCRAP	QTY TON	TYPICAL QUALITIES
semi-rigid PVC film scrap, bales natural and tinted colours. Shrink film.	30 ton / month	PVC semi-rigid film scrap from production, bales clean, natural and tinted / opaque colours.

#### **PVC Resins scrap from production S-PVC and E-PVC, pipe / synthetic leather quality**

TYPE OF PVC SCRAP	QTY TON	TYPICAL QUALITIES
S-PVC resins scrap Natural from production.	100 ton / month	PVC resins scrap, Natural colour with 5- 10% moisture contents. K-Vaule : 65 - 67 ( pipe grade) K- Value : 55 -60 (pipe fittings grade) Bulk bags: 1000 kgs/bag
E-PVC resins scrap from bags production, clean and dry	30 ton / month	E-PVC resins scrap from packaging production, clean, dry , small percentage dirt.

#### **PVC Scrap soft (flexible) film, regrind from bookbinding, medical bags / tubes, floorcovering, carpet back**

TYPE OF PVC SCRAP	QTY TON	TYPICAL QUALITIES
PVC bookbinding film scrap, from production, natural and colour bales / regind / rolls	40 ton / month	soft PVC film scrap from bookbinding film production, bales, rolls, 40% natural and 60% coloured.
soft PVC scrap from medical bags and tubes, Natural colour	30 ton / month	PVC bags / tubes medical grade, bales / regrinded / pelletized clean from production, Natural and coloured.
PVC carpet backing, regrind / bales brown and black, clean	25 ton / month	flexible PVC carpet backing, regrind / bales without fiber contents
PVC floorcovering, regrind and rolls mono and mixed colours, granules, powder, partially dust.	100 ton / month	2soft PVC from floorcovering production, clean, mono and mixed colour, regrind and rolls: S-PVC K65: 36 - 45 % DINP: 15 - 30 % Dolomite lime: 46 - 49 % Stabilizer : 1.5 - 2 % Stearate: 1.5 - 2.5%
soft PVC from: flexible pipe, glove,	25 ton / month	flexible PVC pipe ungrind, new, glove production scrap Natural and colours
PVC cable scrap flexible	100 ton / month	flexible PVC cable scrap from: used cable cover ( green, blue, red) bales. PVC Lumps /purge from production mixed colour



PVC poolliner film production, grind and rolls	20 ton / month	PVC cable grinded , 98% PVC contents, clean
PVC foam from automotive production, clean without PU	25 ton / month	PVC flexible film / sheets from poolliner production, coloured, regrind and rolls.
PVC leather with fabric backing , scrap and rolls, multi colours	PVC	flexible PVC foamed automotive grade, clean without PU contents, multicolours.
		PVC synthetic leather, fabric backing, scrap bales, and rolls , multi-colours.

### **PVC Compounds, dry blend and pellets, virgin / off-grade qualities:**

TYPE OF PVC COMPOUNDS	QTY TON	TYPICAL QUALITIES
PVC window profiles / door formulation compound.	100 ton / month	<p><b>PVC K-67</b> stabilization components - CaZn, acrylic shock modifiers, titanium dioxide, calcium carbonate stabilizer thermic.</p> <p><b>PVC K-58</b> stabilization components based on Pb, modifiers for processing, titanium dioxide, calcium carbonate, expansion agents, lubricating agents, thermic stabilizer.</p> <p><b>PVC 61</b> thermic stabilizer (Sn)- 2 types ,co-stabilizer - epoxided oil from soya - ESO, organic phosphite, lubricating agents: intern, extern, mixt, UV stabilization components (2 types) ,modifiers for processing ,shock modifiers ,calcium carbonate, titanium dioxide.</p> <p><b>PVC resin K-Value 67</b>, Calcium Carbonate (Filler) 10, Acrylic impact modifier (3-5), Stabilizer/lubricant 1, colour (as needed).</p> <p><b>PVC resin K-Value 57-58</b>, Calcium carbonate (filler) 5%, Acrylic impact modifier 4%, Tin stabiliser 1.3 -1.8, process aids 1%, co-stabilizer/lubricant 1%. Colour (as needed).</p> <p><b>PVC resin K-Value 65-68</b>, TiO2 (UV absorber/pegment filler) 6%, CaCO3 (filler) 10%, Acrylic Impact modifier 7%, Heat and light stablizer/lubricant 3%, Acrylic process aids 1%,</p>
S-PVC rigid dry-blend K-Value 65/67 pipe grade	100 ton / month	<p>Dry-blend S-PVC: K value 65/67. Lead Stabilized with lead, CaCo 10% . Colours: White powder, Grey powder, Black powder, Also: Granulate.</p>
PVC Cable Compounds: for insulation & jacketing used in the telecommunication & power cable applications.	granules and dryblends	<ul style="list-style-type: none"> <li>- both low and high temperature flexibility -40°C ...+120°C</li> <li>- Shore hardness A between <u>70 and 100</u></li> <li>- reduced HCl-emission and low-smoke properties</li> <li>- excellent flame retardance</li> <li>- resistance to abrasion and chemicals</li> <li>- resistance to weather-aging, ozone and UV-radiation</li> <li>- good batch-to-batch consistency</li> </ul> <p>Lead free formulations; natural colour or transparent with tints in blue, green, red and yellow, colorations RAL Standard, Pantone; BS or at customer's preference</p> <p>Cable Sheathing grade: Color : Black Hardness : upto 85 Shore 'A' : Specific gravity : 1.48 to 1.52 Tensile : 100 (kgcm2) : Elongation : 105%</p>
PVC cable regranulated from production scrap	<b>K-</b>	

PVC cable regrind from  
production scrap.

**Value**  
**68 - 70**

**Hardness ( Shore A ) : 85 - 89**

[View](#)

**Hardness ( Shore A ) : 85 - 89**

[View](#)

Footwear Compounds

Shoe Sole Grade:

Color : Black

Hardness : upto 68 -72 Shore 'A'

Specific gravity : 1.4 to 1.45

Tensile : 95 - 100 (kgcm<sup>2</sup>)

Elongation : 220 % - 240 %

### **S-PVC Suspension homopolymers virgin and off-grade quality**

**GRADE  
CODE**

**TYPICAL QUALITIES**

**S50B K-Value 50.0**

Bulk Density g/ml: 0.54

Viscosity ml/g : 0. 59

Rigid application:

Blow Molded film, Injection bottles & Molded Fittings, Calendered film and sheets.

**S57B K-Value 57.0**

Bulk Density g/ml: 0.54

Viscosity ml/g : 0. 79

Blow Molded Bottles, Injection Molded Fittings Calendered film & sheets Extrusion sheets, blowing film

**S62S K-Value 62.0**

Bulk Density g/ml: 0.56

Viscosity ml/g : 0. 96

Calendering : film & sheets, extrusion : sheets, blowing film & bottles,

**S65S K-Value 65.0**

Bulk Density g/ml: 0.53

Viscosity ml/g : 105

Rigid & flexible applications:

Calendering: (semi-rigid) and flexible film. Extrusion : flexible tubes & profiles. Extrusion: rigid profiles and sheets. Injection moulding: shoe soles & boots. Cable sheathing & insulation.

Siding, window and door

**S66S K-Value 66.0**

Bulk Density g/ml: 0.57

Viscosity ml/g : 110

Extrusion: pipe all diameters and thickness & profiles.

**S68S K-Value 68.0**

Bulk Density g/ml: 0.57

Viscosity ml/g : 117

Extrusion: pressure pipe, pipe all diameters and thickness & profiles.

**S70F K-Value 70.0**

Bulk Density g/ml: 0.48

Viscosity ml/g : 125

Flexible application:

Cable sheathing and insulation. Calendering and blowing film. Extrusion: flexible tubes, profiles and sheet.

Injection moulding shoe soles and boots.

S75F

K-Value 75.0

Bulk Density g/ml: 0.48

Viscosity ml/g : 145

Flexible application:

Cable sheathing and insulation. Calendering and blowing film. Extrusion: flexible tubes, profiles and sheet.

Injection moulding shoe soles and boots.

E - PVC Virgin Quality							
	S67	S67	S70	S72	S74	S75	S67
Technical Data Sheet (TDS)							
Material Safety Data Sheet (MSDS)							
Viscosity Index	113	113	124	132	140	145	113
K Value	67	67	70	72	74	75	67
Polymerization degree	1040	1040	1200	1340	1470	1540	1040
Viscosity Behavior	Low Viscosity	Low Viscosity	High Viscosity	Low Viscosity	Medium Viscosity	Low Viscosity	

## E-PVC Emulsion Off-grade

### GRADE CODE

### VISCOSITY/ RHEOLOGY

### OTHER PROPERTIES

### TYPICAL APPLICATIONS

Virgin E-PVC K69, 20 kgs bags, octabin.M

SO70M

K-Value 70

med viscosity  
slightlyvery fine open cell chemical foam,  
mechanical foamfoams:  
flooring, wallcovering,  
synthetic leather

PVC Plastisol Emulsion 40/46%

K-Value 65-67

PVC Plastisol Emulsion 40/46%

Plasticizer

Filler Co3Ca 10/15%

Colors 2/6%

Stabilizers 1,5%

Anti UV 0,015%

## PVC Additives scrap, off-grade, virgin

### TYPE OF ADDITIVES

### GRADE

### TYPICAL APPLICATIONS

Impact modifiers (MBS)

PVC pipe, sheets, bottles, window profiles

Acrylic Impact modifiers

PVC

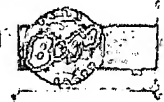
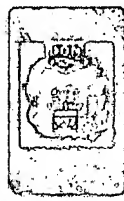
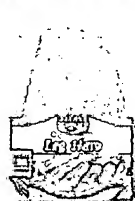
Tin Stabilizers/Plasticizers

PVC

CPE off-grade, scrap and reprocessed.

PVC

# The Art of Packaging



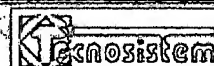
## Modified Atmosphere Packaging (MAP)

### Packaging solutions

Modified atmosphere packaging, which is the process of modifying of a package's natural state to extend the shelf life of its contents, is used for a wide range of products including fresh fish, meat, poultry, bakery products, fruit, vegetables and many other items.

#### (MAP) benefits:

- Extension of shelf- live
- The natural colour of product is preserved
- Products are packed in a natural environment that guarantees freshness
- Price advantage of product (no bags required)
- Consumer friendly package has visual appeal plus the no leak, hygienic design prevents potential cross contamination
- All information (lot number, packaging code) as well as size, use by date, hints for preparation and UPC code are shown on package
- Precise portion control is ideal for consumer, retail and food service sectors
- Packages are retail ready and easily handled
- Reduced need for artificial preservatives
- Higher productivity



From Tecnosistem Italy - backed by the strength, innovative and reliable packaging experience. Reliable forming and sealing. With vacuum and /or compressed air forming; especially suitable for various types of flexible film. In addition, in case of semi-rigid film, will be installed a sandwich pre-heating plate and shaped hot plug to have a perfect forming and sealing on bottom film thickness.

#### Take air out - seal freshness in:

Air extracted is replaced with gas mixture to increase shelf life, preserve the product's color, freshness, and attract customers.

Number of innovative improvements makes the Tecnosistem Mix the clear choice.

The Mix's modularity allows you to tailor the system to your needs and requirements.

Basic machine's widths allow to run film from 220 up to 620 mm. Intermediate pieces allow customer to adapt the product loading area to your specifications. There are also different pitch and lengths of cross and longitudinal cutting systems.

#### Increase production speed:

The Tecnosistem Mix uses the S7 control system, developed by Siemens. The PLC system reports error warnings in plain words. Furthermore, changing to a new product program is fast and easy just touching the control panel. It is possible to set up to 99 programs. Thanks to film drive brushless; increase production speed without faults and precision of 0,01 mm (visible on control panel). No maintenance needs, no possible environment damages (dusty, humidity) and maximum flexibility.

## Protective Gases:

- CO2 inhibits the growth of most bacteria and molds
- N2 is used to exclude air, and in particular Oxygen prevents the collapse of packs for high-moisture and fat-containing foods.

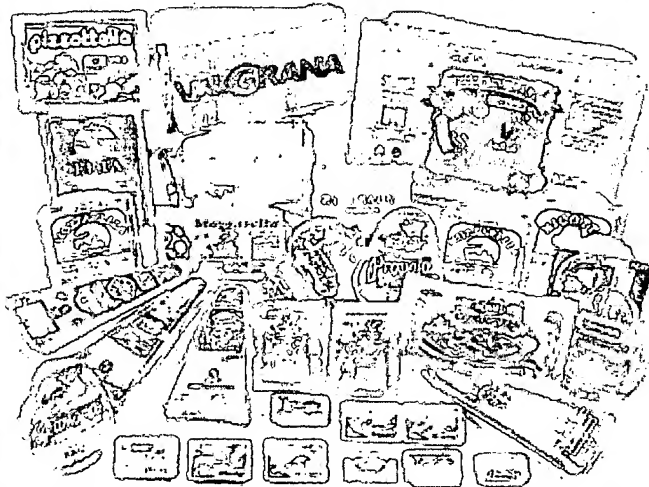
## Maximum flexibility:

Number of innovative improvements makes the Tecnosistem Mix the clear choice. The Mix's modularity allows you to tailor the system to your needs and requirements. Basic machine's widths allow to run film from 220 up to 620 mm. Intermediate pieces allow

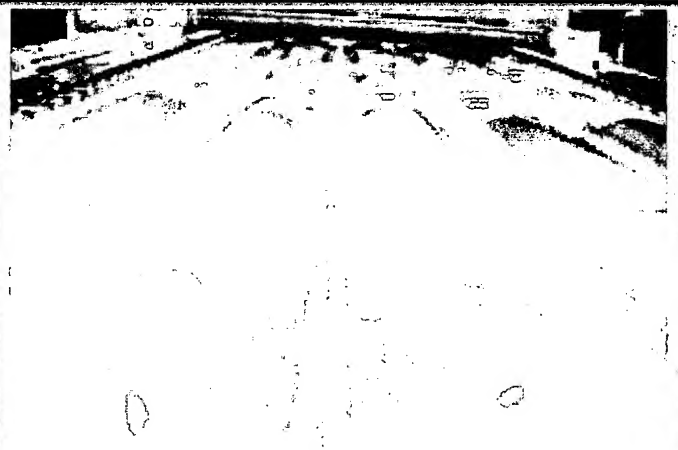
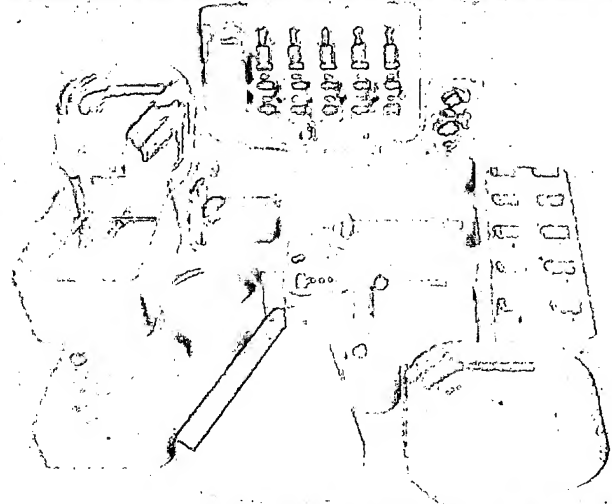
O2 maintains fresh, natural colour (in red meats for example) maintains expiration (in fruits and vegetables) inhibits the growth of anaerobic organics (in some types of fish and vegetables)

customer to adapt the product loading area to your specifications. There are also different pitch and lengths of cross and longitudinal cutting systems. Fast film roll and die set changeover: Low and upper changeover is easy and fast thanks to pneumatic a reel holder arm managed directly just pushing on the touch screen control panel. Die-set changeover is possible in record time thanks to special system "hinged top" on both forming and sealing stations Cross - cutting, punching, shaped: Flexible films are cut with a serrated knife which cuts across the film like a guillotine. With semi rigid films - adding also Euro-hole punch, if required.

#### Packaging solutions



#### Packaging design



## The Art of Packaging

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